

ABSTRACT

[43] An exemplary hearing aid system includes a receiver configured so as to create an insertion loss over the audible range of hearing below about three decibels as compared to the unaided ear. An exemplary hearing aid system also includes one or more of: a micro-receiver positioned in an open-ear configuration within the ear canal of a user; an intermediate connecting portion extending between a sound processing unit and a receiver, wherein the intermediate connecting portion includes a stiffening wire provided on at least a portion of the intermediate connecting portion and/or within or on at least a portion of the receiver; a retaining wire extending from one of the stiffening wire and the receiver, the retaining wire configured to position within a portion of the concha of the ear; an electrical conducting component comprising two wires within distinct channels or otherwise isolated from one another within the intermediate connecting portion; and a speaker, at least partially enclosed within a casing having first and second end portions, the first end portion communicating with the connection, the speaker communicating with a port provided at the second end portion of the casing, wherein the casing is sealed to fluids and wherein the port is sealed to fluids by a membrane or mesh material. The described hearing aid reduces the insertion and occlusion effects relative to comparison devices.